

FROM VERNAL PHOSPHATE
JAN '83 BLINDER
DRAFT COPY

17/047/007

HOLLAND,
I FOUND THIS INFO ON
THE VERNAL TAILINGS WHILE
LOOKING AT THE PLAN.
HAVE YOU SEEN IT?
Jong

SAMPLE ANALYSIS REQUEST FORM

Project: Vernal Phosphate Project
Phase II

Project No. 82-110

PART A. FIELD INFORMATION

Collector's Name: S. McCutcheon

Telephone: (714) 772-2681

Date Sampled: 6/30/82

Time Sampled: #1 - 12:30 hrs.

St. Clair

#2 - 12:45 hrs.

#3 - 12:55 hrs.

Affiliation: Research

Address: P. O. Box 2638, Anaheim, CA 92804

(number) (street)

(city)

(state)

(zip)

LAB

COLLECTOR

TYPE OF SAMPLE

COMMENTS

SAMPLE NO.

SAMPLE NO.

(Soil, Sludge, Liquid)

	<u>1</u>	<u>Soil (tailings)</u>	
	<u>2</u>	<u>Soil (tailings)</u>	
	<u>3</u>	<u>Soil (tailings)</u>	

ANALYSIS REQUESTED (Reference P.O. #): EP (Extraction Procedure)

Toxicity Test @ State of Utah Hazardous Waste Management Reg.s., Appendix I
(See letter dated July 1, 1982)

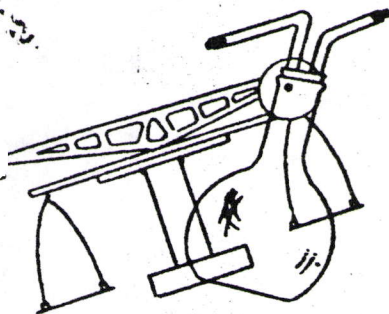
SPECIAL HANDLING/STORAGE INSTRUCTIONS (e.g., ice, dry room, etc.):

PART B. LABORATORY INFORMATION

Purchase Order No. _____ Received By: _____

Date Received: _____ Time Received: _____

ANALYSIS REQUIRED (Summarize P.O. instructions; note any additions; etc.):



Ford Chemical

LABORATORY, INC.
Bacteriological and Chemical Analysis

40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

DATE: 07/26/82

CERTIFICATE OF ANALYSIS

ST. CLAIR RESEARCH
P.O. BOX 2638
ANAHEIM, CA
92804

82-004030

SAMPLE: SOIL SAMPLE #1, 12:30 RECEIVED 7-8-82 FOR HAZARDOUS WASTE,
E.P. TOXICITY ANALYSIS USING EPA SW 846 REV. A & B, VERNAL
PHOSPHATE PROJECT, PHASE 2, PROJECT 82-110.

RESULTS

PCRA EP Toxic levels

1-Arsenic as As mg/l-D004	<.001
1-Barium as Ba mg/l-D005	.965
1-Cadium as Cd mg/l-D006	.004
1-Chromium as Cr mg/l-D007	.020
1-Lead Recovery %	99.10
1-Lead as Pb (Dupl) mg/l	.133
1-Lead as Pb mg/l-D008	.130
1-Mercury as Hg mg/l-D009	.0003
1-Selenium as Se mg/l-D010	.005
1-Silver as Ag mg/l-D011	.005
Antimony as Sb mg/l	<.001
Cobalt as Co mg/l	<.001
Manganese as Mn mg/l	.005

5.0
100.0
1.0
5.0
5.0
5.0
0.2
1.0
5.0

5.0 mg/l

100.00

1.0

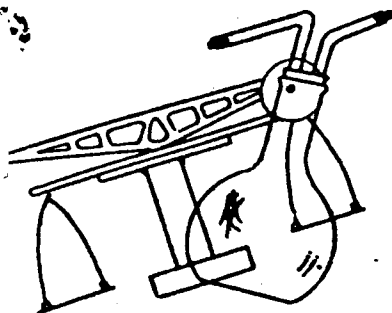
5.0

5.0

0.2

1.0

5.0



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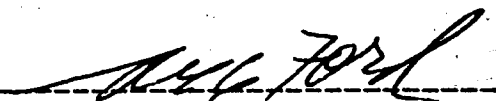
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CERTIFICATE OF ANALYSIS
82-004030

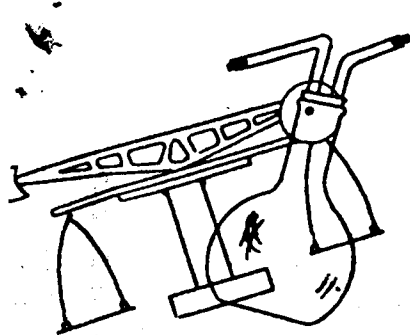
RESULTS

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Nickel as Ni mg/l	.015
Zinc as Zn mg/l	.445



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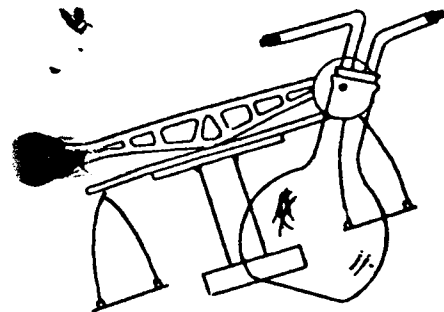
ST. CLAIR RESEARCH
P.O. BOX 2638
ANAHEIM, CA
92804

82-004031

SAMPLE: SOIL SAMPLE #2, 12:45 RECEIVED 7-8-82 FOR HAZARDOUS WASTE,
E.P. TOXICITY ANALYSIS USING EPA SW 846 REV. A & B, VERNAL
PHOSPHATE PROJECT, PHASE 2, PROJECT 82-110.

RESULTS

1-Arsenic as As mg/l-D004	.016
1-Barium as Ba mg/l-D005	1.450
1-Cadium as Cd mg/l-D006	.002
1-Chromium as Cr mg/l-D007	.005
1-Lead Recovery %	98.90
1-Lead as Pb (Dupl) mg/l	.095
1-Lead as Pb mg/l-D008	.090
1-Mercury as Hg mg/l-D009	.0002
1-Selenium as Se mg/l-D010	.002
1-Silver as Ag mg/l-D011	.004
Antimony as Sb mg/l	<.001
Cobalt as Co mg/l	<.001
Manganese as Mn mg/l	.065



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CERTIFICATE OF ANALYSIS

82-004031

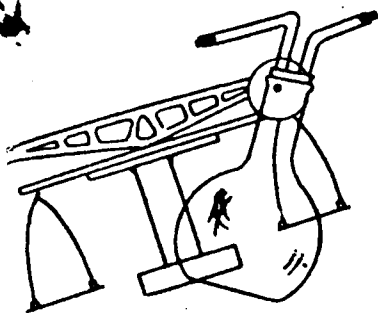
RESULTS

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Nickel as Ni mg/l	.017
Zinc as Zn mg/l	.669



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PHONE 466-8761

DATE: 07/26/82

CERTIFICATE OF ANALYSIS

ST. CLAIR RESEARCH
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ANAHEIM, CA
92804

82-004032

SAMPLE: SOIL SAMPLE #3, 12:55 RECEIVED 7-8-82 FOR HAZARDOUS WASTE,
E.P. TOXICITY ANALYSIS USING EPA SW 846 REV. A & B, VERNAL
PHOSPHATE PROJECT, PHASE 2, PROJECT 82-110.

RESULTS

=====	=====
1-Arsenic as As mg/l-D004	.003
1-Barium as Ba mg/l-D005	.899
1-Cadmium as Cd mg/l-D006	.007
1-Chromium as Cr mg/l-D007	.012
1-Lead Recovery %	98.96
1-Lead as Pb (Dupl) mg/l	.006
1-Lead as Pb mg/l-D008	.005
1-Mercury as Hg mg/l-D009	.0010
1-Selenium as Se mg/l-D010	<.001
1-Silver as Ag mg/l-D011	<.001
Antimony as Sb mg/l	<.001
Cobalt as Co mg/l	<.001
Manganese as Mn mg/l	.025



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Bacteriological and Chemical Analysis

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SALT LAKE CITY, UTAH 84115

PHONE 466-8761

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CERTIFICATE OF ANALYSIS
82-004032

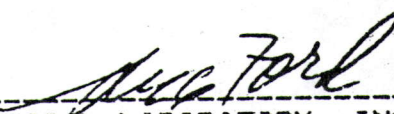
RESULTS

Nickel as Ni mg/l

.055

Zinc as Zn mg/l

.775


FORD CHEMICAL LABORATORY, INC.